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Microprocessors and Interfacing Indian Society : For Civil Services Main Examination GS Paper I Modern Treatment Strategies for Marine Pollution *Textiles for Industrial Applications* Vibration and Damping Behavior of Biocomposites **Microprocessors and Microcontrollers Computer-Aided Injection Mold Design and Manufacture Bast Fibers and Their Composites **Soft Computing for Security Applications Process Management in Spinning Discrete Mathematical Structures Textiles for Industrial Applications** Bamboo Fiber Composites **Peroxisomes and their Key Role in Cellular Signaling and Metabolism Beneficial Microbes in Agro-Ecology Detox Fashion **Smart Materials for Energy Conversion and Sensor Based Technologies** *Unsaturated Polyester Resins New and Future Developments in Microbial Biotechnology and Bioengineering* **Advanced Fixture******

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Beyond Inclusion
Discrete Mathematical Structures
Dynamics of Nonlinear Time-Delay Systems
Sustainable Composites for Aerospace Applications
Essentials of Research Methodology for all Physiotherapy and Allied Health Sciences Students

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Vibration and Damping Behavior of Biocomposites Jun 26 2022
Fiber-reinforced polymer composites exhibit better damping characteristics than conventional metals

due to the viscoelastic nature of the polymers. There has been a growing interest among research communities and industries in the use of natural fibers as reinforcements in structural and semi-structural applications, given their environmental advantages. Knowledge of the vibration and damping behavior of biocomposites is essential for engineers and scientists who work in the field of composite materials. *Vibration and Damping Behavior of Biocomposites* brings together the latest research developments in vibration and viscoelastic behavior of composites filled with different natural fibers. Features: Reviews the effect of various types of reinforcements on free vibration behavior Emphasizes aging effects, influence of compatibilizers, and hybrid fiber reinforcement Explores the influence of resin type on viscoelastic properties Covers the use of computational modeling to analyze dynamic behavior and viscoelastic properties Discusses viscoelastic damping characterization through dynamic mechanical analysis. This compilation will greatly benefit academics, researchers, advanced students, and practicing engineers in materials and mechanical engineering and related fields who work with biocomposites. Editors Dr. Senthil Muthu Kumar Thiagamani, Kalasalinagam Academy of Research and Education (KARE), India Dr. Md Enamul Hoque, Military Institute of Science and Technology (MIST), Bangladesh Dr. Senthilkumar Krishnasamy, King Mongkut's University of Technology North Bangkok

KMUTNB, Thailand Dr. Chandrasekar Muthukumar, Hindustan Institute of Technology & Science (HITS), India Dr. Suchart Siengchin, King Mongkut's University of Technology North Bangkok KMUTNB, Thailand

Microprocessors and Interfacing Oct 31 2022

Microprocessors and Interfacing is a textbook for undergraduate engineering students who study a course on various microprocessors, its interfacing, programming and applications.

Discrete Mathematical Structures Dec 21 2021 This book contains fundamental concepts on discrete mathematical structures in an easy to understand style so that the reader can grasp the contents and explanation easily. The concepts of discrete mathematical structures have application to computer science, engineering and information technology including in coding techniques, switching circuits, pointers and linked allocation, error corrections, as well as in data networking, Chemistry, Biology and many other scientific areas. The book is for undergraduate and graduate levels learners and educators associated with various courses and programmes in Mathematics, Computer Science, Engineering and Information Technology. The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities. Readers will find solved examples and end of chapter exercises to enhance reader comprehension. Features Offers comprehensive coverage

of basic ideas of Logic, Mathematical Induction, Graph Theory, Algebraic Structures and Lattices and Boolean Algebra Provides end of chapter solved examples and practice problems Delivers materials on valid arguments and rules of inference with illustrations Focuses on algebraic structures to enable the reader to work with discrete structures

Modern Treatment Strategies for Marine Pollution

Aug 29 2022 Modern Treatment Strategies for Marine Pollution provides an overview of assessment tools that identify contaminants in marine water, also discussing the latest technologies for removing these contaminants. Through templated and consistently structured chapters, the author explores the importance of seawater to our marine ecosystems and the devastating effects pollutants are causing. Sections cover the emission of toxic pollutants from industries, wastewater discharge, oil spills from boarding ships, ballast water emission, abnormal growth of algal blooms, and more. Techniques explored include huge diameter pipelines erected for removing floating debris from seawater, which is denoted as a primary idea for cleaning contaminants. The book includes numerous case studies that demonstrate how these tools can be successfully used. It is an essential read for marine ecologists and oceanographers at the graduate level and above, but is also ideal for those looking to incorporate these techniques into their own work. Presents and discusses advanced technologies used in the treatment

of marine water Includes case studies to show what techniques have been successful Provides new information on contamination assessment and analytical protocols for identifying pollutants, which is essential for readers to use in their own work

Dynamics of Nonlinear Time-Delay Systems Aug 24

2019 Synchronization of chaotic systems, a patently nonlinear phenomenon, has emerged as a highly active interdisciplinary research topic at the interface of physics, biology, applied mathematics and engineering sciences. In this connection, time-delay systems described by delay differential equations have developed as particularly suitable tools for modeling specific dynamical systems. Indeed, time-delay is ubiquitous in many physical systems, for example due to finite switching speeds of amplifiers in electronic circuits, finite lengths of vehicles in traffic flows, finite signal propagation times in biological networks and circuits, and quite generally whenever memory effects are relevant. This monograph presents the basics of chaotic time-delay systems and their synchronization with an emphasis on the effects of time-delay feedback which give rise to new collective dynamics. Special attention is devoted to scalar chaotic/hyperchaotic time-delay systems, and some higher order models, occurring in different branches of science and technology as well as to the synchronization of their coupled versions. Last but not least, the presentation as a whole strives for a balance between the necessary

mathematical description of the basics and the detailed presentation of real-world applications.

Process Management in Spinning Jan 22 2022 A Straightforward Text Summarizing All Aspects of Process Control Textile manufacturing is one of the largest industries in the world, second only to agriculture. Spinning covers a prominent segment in textile manufacturing, and this budding industry continues to thrive and grow. **Process Management in Spinning** considers aspect of process management, and offers insight into the process control procedures and methods of spinning. Focusing on the technology as well as the management of the process, it examines both the economic and technological advancements currently taking place in the spinning industry. This text takes a close look at the advancing technology in manufacturing and process, and product quality control. It provides a basic overview of the subject, and also presents applications of this technology for practicing engineers. **Incorporates Industry-Based, Real-World Examples** The book contains 15 chapters that specifically address the stages of process control, energy management methods, humidification and ventilation systems basics, pollution management, process management tools, productivity, waste control, material handling, and other aspects of spinning mills. It also includes real-time case studies involving typical problems that arise in spinning processes and strategies used to contain them. The author

provides a broad outlook on various topics including mixing, winding, raw material and optimizing raw material properties, bale management, yarn engineering systems, processing, and process management systems. He also details the defects associated with each and every process with causes, effects, and control measures. The book addresses process management as it relates to productivity, quality, and costs, as well as process control as it relates to man, machine, and material. Provides the scientific method for optimization/optimizing the properties of the fibers Familiarizes the reader with remedial measures to enhance the quality of the product Addresses productivity measurement and its role in controlling the cost of the manufacturing process Contains detailed examples, as well as linear programming and optimization techniques, and statistical applications Covers the areas of process control methods in spinning, defect analysis and rectification, improving productivity and quality, and using statistical tools Process Management in Spinning establishes the various process management measures required to help improve the process efficiency in spinning mills and the textile industry overall. Aimed at professionals in the textile industry, this text is a perfect resource for textile engineers/technologists/manufacturers, spin quality control engineers, spin quality assurance personnel, and other industry professionals.

Textiles for Industrial Applications Jul 28 2022 An

evolution is currently underway in the textile industry and Textile for Industrial Applications is the guidebook for its growth. This industry can be classified into three categories-clothing, home textile, and industrial textile. Industrial textiles, also known as technical textiles, are a part of the industry that is thriving and showing great

Advanced Topological Insulators May 02 2020 This book is the first pedagogical synthesis of the field of topological insulators and superconductors, one of the most exciting areas of research in condensed matter physics. Presenting the latest developments, while providing all the calculations necessary for a self-contained and complete description of the discipline, it is ideal for researchers and graduate students preparing to work in this area, and it will be an essential reference both within and outside the classroom. The book begins with the fundamental description on the topological phases of matter such as one, two- and three-dimensional topological insulators, and methods and tools for topological material's investigations, topological insulators for advanced optoelectronic devices, topological superconductors, saturable absorber and in plasmonic devices. Advanced Topological Insulators provides researchers and graduate students with the physical understanding and mathematical tools needed to embark on research in this rapidly evolving field.

Microprocessors and Microcontrollers May 26 2022

Key Features --

Beyond Inclusion Oct 26 2019 In India, two critical aspects of public policy — social justice and higher education — have witnessed unprecedented expansion in recent years. While several programmes have been designed by the State to equalise access to higher education and implement formal inclusion, discrimination based on caste, tribe, gender, and rural location continues to exist. Focusing on the concrete experiences of these programmes, this book explores the difficulties and dilemmas that follow formal inclusion, and seeks to redress the disproportionate emphasis on principles rather than practice in the quest for equal access to higher education in India. Offering new perspectives on the debates on social mobility and merit, this volume examines a broad spectrum of educational courses, ranging from engineering, medicine and sciences to social work, humanities and the social sciences that cover all levels of higher education from undergraduate degrees to post-doctoral research. It points to various sources of social exclusion by studying a cross-section of national, elite, subaltern, and sub-regional institutions across the states of Rajasthan, Gujarat, Jharkhand, Uttar Pradesh, Punjab, Kerala, and Tamil Nadu. Closely involved with the implementation and evaluation of affirmative action programmes, the contributors to the volume highlight the paradoxical ‘sectionalisation’ of reserved candidates, the daunting challenge of combating discrimination. Understanding the need to look beyond formal inclusion

to enable substantive change, this important volume will be essential reading for scholars and teachers of sociology, education, social work, economics, public administration, and political science, besides being of great interest to policymakers and organisations concerned with education and discrimination.

Textiles for Industrial Applications Nov 19 2021 An evolution is currently underway in the textile industry and **Textile for Industrial Applications** is the guidebook for its growth. This industry can be classified into three categories--clothing, home textile, and industrial textile. Industrial textiles, also known as technical textiles, are a part of the industry that is thriving and showing great promise. Unlike conventional textiles traditionally used for clothing or furnishing by consumers, industrial textiles are used for manufacturing and functionality purposes, and generally by other industries. This book provides an encyclopedic review of industrial textiles, covering all of the latest trends in the development and application of these textiles with advice and suggestions on how to apply them in other industries. Discusses the latest technologies adopted in the industrial textile industry including nano finishing and plasma applications Covers the basic fundamentals about product characteristics and production techniques Caters to students and faculty involved in textile technology, composite technology, and other interdisciplinary courses as it relates to product engineering and product development **Textiles for**

Industrial Applications details the market potential and growth of industrial textiles and explains the steps involved in the product development of industrial textiles. It discusses property requirement, the basic textile manufacturing process, manufacturing techniques and fibers used, as well as application methods. The book highlights recent developments in terms of raw material usage, manufacturing technology, and value-added finishes in this sector. A separate chapter focuses on the testing procedures of various industrial textiles.

Graphene-Enhanced Electrochemical Sensing Platforms Mar 31 2020

Bioinformatics - A Student's Companion Jan 28 2020

This manual offers a stand-alone reading companion, unique in simplifying the practical components of Bioinformatics in a unique and user-friendly manner. It covers the practical component of syllabi used at most leading universities and discusses the most extensively used tools and methodologies in Bioinformatics. Research in the biological sciences has made tremendous strides in recent years due in part to the increased automation in data generation. At the same time, storing, managing and interpreting huge volumes of data has become one of the most challenging tasks for scientists. These two aspects have ultimately necessitated the application of computers, giving rise to a highly interdisciplinary discipline–Bioinformatics. Despite the richness of bioinformatics resources and methods, the exposure of

life sciences undergraduates and postgraduates to bioinformatics is extremely limited. Though the internet offers various tools for free, and provides guides for using them, it fails to help users interpret the processed data. Moreover, most sites fail to update their help pages to accommodate software upgrades. Though the market is flooded with books discussing the theoretical concepts in Bioinformatics, a manual of this kind is rarely found. The content developed to meet the needs of readers from diverse background and to incorporate the syllabi of undergraduate and postgraduate courses at various universities.

Automation in Textile Machinery Feb 29 2020

Automation is the use of various control systems for operating equipment such as machinery and processes. In line, this book deals with comprehensive analysis of the trends and technologies in automation and control systems used in textile engineering. The control systems described in all chapters is to dissect the important components of an integrated control system in spinning, weaving, knitting, chemical processing and garment industries, and then to determine if and how the components are converging to provide manageable and reliable systems throughout the chain from fiber to the ultimate customer.

Key Features:

- Describes the design features of machinery for operating various textile machineries in product manufacturing
- Covers the fundamentals of the instrumentation and control engineering used in textile

machineries • Illustrates sensors and basic elements for textile automation • Highlights the need of robotics in textile engineering • Reviews the overall idea and scope of research in designing textile machineries

Sustainable Innovations in Apparel Production Oct 07

2020 There have been a lot of innovations in making the garment or apparel production sector sustainable. This book highlights sustainable innovations in the apparel production sector, which is the final destination in the textile production segment. Measuring sustainability in clothing is one of the inevitable areas to deal with when it comes to sustainable apparel production, which is also highlighted here.

Detox Fashion Jul 16 2021 This first volume on detox fashion discusses various interesting topics including a Toxic-Free Supply Chain for Textiles and Clothing; Environmental Issues in Textiles; Global Regulations, Restrictions & Research; Making the Change: Consumer Adoption of Sustainable Fashion; and Strategies for Detoxing Your Wardrobe. It provides an overview of the chemical-related issues confronting the fashion sector, summarizes global regulations, and discusses how to make the change by changing consumers' attitude towards adopting sustainable fashion, as well as the best strategies for detoxing our wardrobes.

Bamboo Fiber Composites Oct 19 2021 This book summarizes many of the recent developments in the area of bamboo composites with emphasis on new challenges

for the synthesis characterization, properties of bamboo composites and practical applications. The book provides an update of all the important areas of (synthesis, processing, properties and application) bamboo fibers and its composites in a comprehensive manner. The chapters contributed by leading researchers from industry, academy, government and private research institutions across the globe benefit academics, researchers, scientists, engineers and students in the field of natural fiber composites.

Sustainable Composites for Aerospace Applications Jul 24 2019 Sustainable Composites for Aerospace Applications presents innovative advances in the fabrication, characterization and applications of LDH polymer nanocomposites. It covers fundamental structural and chemical knowledge and explores various properties and characterization techniques, including microscopic, spectroscopic and mechanical behaviors. Users will find a strong focus on the potential applications of LDH polymer nanocomposites, such as in energy, electronics, electromagnetic shielding, biomedical, agricultural, food packaging and water purification functions. This book provides comprehensive coverage of cutting-edge research in the field of LDH polymer nanocomposites and future applications, and is an essential read for all academics, researchers, engineers and students working in this area. Presents fundamental knowledge of LDH polymer nanocomposites, including chemical

composition, structural features and fabrication techniques Provides an analytical overview of the different types of characterization techniques and technologies Contains extensive reviews on cutting-edge research for future applications in a variety of industries

Fuzzy Machine Learning Algorithms for Remote Sensing Image Classification Jan 10 2021 This book covers the state-of-art image classification methods for discrimination of earth objects from remote sensing satellite data with an emphasis on fuzzy machine learning and deep learning algorithms. Both types of algorithms are described in such details that these can be implemented directly for thematic mapping of multiple-class or specific-class landcover from multispectral optical remote sensing data. These algorithms along with multi-date, multi-sensor remote sensing are capable to monitor specific stage (for e.g., phenology of growing crop) of a particular class also included. With these capabilities fuzzy machine learning algorithms have strong applications in areas like crop insurance, forest fire mapping, stubble burning, post disaster damage mapping etc. It also provides details about the temporal indices database using proposed Class Based Sensor Independent (CBSI) approach supported by practical examples. As well, this book addresses other related algorithms based on distance, kernel based as well as spatial information through Markov Random Field (MRF)/Local convolution methods to handle mixed pixels, non-linearity and noisy

pixels. Further, this book covers about techniques for quantitative assessment of soft classified fraction outputs from soft classification and supported by in-house developed tool called sub-pixel multi-spectral image classifier (SMIC). It is aimed at graduate, postgraduate, research scholars and working professionals of different branches such as Geoinformation sciences, Geography, Electrical, Electronics and Computer Sciences etc., working in the fields of earth observation and satellite image processing. Learning algorithms discussed in this book may also be useful in other related fields, for example, in medical imaging. Overall, this book aims to: exclusive focus on using large range of fuzzy classification algorithms for remote sensing images; discuss ANN, CNN, RNN, and hybrid learning classifiers application on remote sensing images; describe sub-pixel multi-spectral image classifier tool (SMIC) to support discussed fuzzy and learning algorithms; explain how to assess soft classified outputs as fraction images using fuzzy error matrix (FERM) and its advance versions with FERM tool, Entropy, Correlation Coefficient, Root Mean Square Error and Receiver Operating Characteristic (ROC) methods and; combines explanation of the algorithms with case studies and practical applications.

Digital Multimedia: Concepts, Methodologies, Tools, and Applications Feb 08 2021 Contemporary society resides in an age of ubiquitous technology. With the consistent creation and wide availability of multimedia

content, it has become imperative to remain updated on the latest trends and applications in this field. **Digital Multimedia: Concepts, Methodologies, Tools, and Applications** is an innovative source of scholarly content on the latest trends, perspectives, techniques, and implementations of multimedia technologies. Including a comprehensive range of topics such as interactive media, mobile technology, and data management, this multi-volume book is an ideal reference source for engineers, professionals, students, academics, and researchers seeking emerging information on digital multimedia.

Principles and Practices of Organic Farming Jul 04 2020 This book elaborately describes about the basic principles and need of organic farming, importance of bio diversity, steps involved in organic conversion, list of permitted and prohibited substances in organic farming, organic certifying agencies in India, certification process and economics of organic cultivation in different crops.

Peroxisomes and their Key Role in Cellular Signaling and Metabolism Sep 17 2021 Peroxisomes are a class of ubiquitous and dynamic single membrane-bounded cell organelles, devoid of DNA, with an essentially oxidative type of metabolism. In recent years it has become increasingly clear that peroxisomes are involved in a range of important cellular functions in almost all eukaryotic cells. In higher eukaryotes, including humans, peroxisomes catalyze ether phospholipids biosynthesis, fatty acid alpha-oxidation, glyoxylate detoxification, etc,

and in humans peroxisomes are associated with several important genetic diseases. In plants, peroxisomes carry out the fatty acid beta-oxidation, photorespiration, metabolism of ROS, RNS and RSS, photomorphogenesis, biosynthesis of phytohormones, senescence, and defence against pathogens and herbivores. In recent years it has been postulated a possible contribution of peroxisomes to cellular signaling. In this volume an updated view of the capacity and function of peroxisomes from human, animal, fungal and plant origin as cell generators of different signal molecules involved in distinct processes of high physiological importance is presented.

Indian Society : For Civil Services Main Examination GS Paper I Sep 29 2022 This book provides an in-depth insight into the Indian society and the varied social issues it is currently faced with. While serving as a foundation and ready-reference resource, the book covers all important topics such as the role of Women in Indian Society, Population, Poverty, Urbanization and related issues of Communalism and Social Empowerment. It aims to not only equip an aspirant with all the relevant information required for scoring high marks but also help the future policy-makers to have a better understanding of what Indian society needs.

Essentials of Research Methodology for all Physiotherapy and Allied Health Sciences Students Jun 22 2019

Handbook of Research on Emerging Applications of

Fuzzy Algebraic Structures Sep 05 2020 In the world of mathematics, the study of fuzzy relations and its theories are well-documented and a staple in the area of calculative methods. What many researchers and scientists overlook is how fuzzy theory can be applied to industries outside of arithmetic. The framework of fuzzy logic is much broader than professionals realize. There is a lack of research on the full potential this theoretical model can reach. The Handbook of Research on Emerging Applications of Fuzzy Algebraic Structures provides emerging research exploring the theoretical and practical aspects of fuzzy set theory and its real-life applications within the fields of engineering and science. Featuring coverage on a broad range of topics such as complex systems, topological spaces, and linear transformations, this book is ideally designed for academicians, professionals, and students seeking current research on innovations in fuzzy logic in algebra and other matrices.

Gene Editing in Plants Dec 29 2019 Gene Editing in Plants, Volume 149 aims to provide the reader with an up-to-date survey of cutting-edge research with gene editing tools and an overview of the implications of this research on the nutritional quality of fruits, vegetables and grains. New chapters in the updated volume include topics relating to Genome Engineering and Agriculture: Opportunities and Challenges, the Use of CRISPR/Cas9 for Crop Improvement in Maize and Soybean, the Use of

Zinc-Finger Nucleases for Crop Improvement, Gene Editing in Polyploid Crops: Wheat, Camelina, Canola, Potato, Cotton, Peanut, Sugar Cane, and Citrus, and Gene Editing With TALEN and CRISPR/Cas in Rice. This ongoing serial contain contributions from leading scientists and researchers in the field of gene editing in plants who describe the results of their own research in this rapidly expanding area of science. Shows the importance of revolutionary gene editing technology on plant biology research and its application to agricultural production Provides insight into what may lie ahead in this rapidly expanding area of plant research and development Contains contributions from major leaders in the field of plant gene editing

New and Future Developments in Microbial

Biotechnology and Bioengineering Apr 12 2021 Crop Improvement through Microbial Biotechnology explains how certain techniques can be used to manipulate plant growth and development, focusing on the cross-kingdom transfer of genes to incorporate novel phenotypes in plants, including the utilization of microbes at every step, from cloning and characterization, to the production of a genetically engineered plant. This book covers microbial biotechnology in sustainable agriculture, aiming to improve crop productivity under stress conditions. It includes sections on genes encoding avirulence factors of bacteria and fungi, viral coat proteins of plant viruses, chitinase from fungi, virulence factors from nematodes

and mycoplasma, insecticidal toxins from *Bacillus thuringiensis*, and herbicide tolerance enzymes from bacteria. Introduces the principles of microbial biotechnology and its application in crop improvement Lists various new developments in enhancing plant productivity and efficiency Explains the mechanisms of plant/microbial interactions and the beneficial use of these interactions in crop improvement Explores various bacteria classes and their beneficial effects in plant growth and efficiency

Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes Nov 07 2020 Every second, users produce large amounts of image data from medical and satellite imaging systems. Image mining techniques that are capable of extracting useful information from image data are becoming increasingly useful, especially in medicine and the health sciences. *Biomedical Image Analysis and Mining Techniques for Improved Health Outcomes* addresses major techniques regarding image processing as a tool for disease identification and diagnosis, as well as treatment recommendation. Highlighting current research intended to advance the medical field, this publication is essential for use by researchers, advanced-level students, academicians, medical professionals, and technology developers. An essential addition to the reference material available in the field of medicine, this timely publication covers a range of applied research on data mining, image processing,

computational simulation, data visualization, and image retrieval.

Bast Fibers and Their Composites Mar 24 2022 This edited book focuses on processing, properties, and applications of bast fiber and its composites written by renowned researchers and academicians. The contents focus on properties such as rheological and dielectric of bast fiber composites. It also discusses its dynamic mechanical analysis, thermal stability of polymer composites reinforced with bast fibers, and water absorption behavior of bast fiber incorporated polymer composites. This book will be beneficial to both the industry and academia as it highlights possible avenues of future research.

Soft Computing for Security Applications Feb 20 2022 This book features selected papers from the International Conference on Soft Computing for Security Applications (ICSCS 2021), held at Dhirajlal Gandhi College of Technology, Tamil Nadu, India, during June 2021. It covers recent advances in the field of soft computing techniques such as fuzzy logic, neural network, support vector machines, evolutionary computation, machine learning and probabilistic reasoning to solve various real-time challenges. The book presents innovative work by leading academics, researchers, and experts from industry.

Discrete Mathematical Structures Sep 25 2019 This book contains fundamental concepts on discrete mathematical structures in an easy to understand style so that the reader

can grasp the contents and explanation easily. The concepts of discrete mathematical structures have application to computer science, engineering and information technology including in coding techniques, switching circuits, pointers and linked allocation, error corrections, as well as in data networking, Chemistry, Biology and many other scientific areas. The book is for undergraduate and graduate levels learners and educators associated with various courses and programmes in Mathematics, Computer Science, Engineering and Information Technology. The book should serve as a text and reference guide to many undergraduate and graduate programmes offered by many institutions including colleges and universities. Readers will find solved examples and end of chapter exercises to enhance reader comprehension. Features Offers comprehensive coverage of basic ideas of Logic, Mathematical Induction, Graph Theory, Algebraic Structures and Lattices and Boolean Algebra Provides end of chapter solved examples and practice problems Delivers materials on valid arguments and rules of inference with illustrations Focuses on algebraic structures to enable the reader to work with discrete structures

The History of Maxillofacial Surgery Dec 09 2020 The multi-authored, multi-institutional, and multi-specialty-based text is designed as a valuable resource for surgeons working on the maxillofacial region. Meant to be a clinically based history of the past, the present, and the

future of the field, this is a one-of-a-kind text that will cater to a variety of professions: from oral & maxillofacial surgeons, plastic and reconstructive surgeons, otolaryngologists head and neck surgeons, cosmetic surgeons and the general dental practitioner. The History of Maxillofacial Surgery: An Evidence-Based Journey is divided into three sections for ease of understanding: The first section gives an overview of the early history; the second section provides a discussion of conventional procedures; and the third section gives a history of advanced procedures and techniques. By understanding the fundamental procedures and techniques of the field, practitioners can continue to further the field by building upon the past. Including historic case studies paired with real patient photos, this text details why professionals do what they do today with insight directly from the clinic. To provide a unique perspective the book is edited by three individuals at different stages of their careers. Each chapter is authored by a young surgeon paired with a seasoned surgeon.

Trends in Mechanical and Biomedical Design Jun 02 2020 This book comprises select papers presented at the International Conference on Mechanical Engineering Design (ICMechD) 2019. The volume focuses on the recent trends in design research and their applications across the mechanical and biomedical domain. The book covers topics like tribology design, mechanism and machine design, wear and surface engineering, vibration

and noise engineering, biomechanics and biomedical engineering, industrial thermodynamics, and thermal engineering. Case studies citing practical challenges and their solutions using appropriate techniques and modern engineering tools are also discussed. Given its contents, this book will prove useful to students, researchers as well as practitioners.

Smart Materials for Energy Conversion and Sensor Based Technologies Jun 14 2021

Unsaturated Polyester Resins May 14 2021 *Unsaturated Polyester Resins: Fundamentals, Design, Fabrication, and Applications* explains the preparation, techniques and applications relating to the use of unsaturated polyester resin systems for blends, interpenetrating polymer networks (IPNs), gels, composites and nanocomposites, enabling readers to understand and utilize the improved material properties that UPRs facilitate. Chapters cover unsaturated polyester resins and their interaction at the macro, micro and nano levels, in-depth studies on the properties and analysis of UPR based materials, and the applications of UPR based composites, blends, IPNs and gels across a range of advanced commercial and industrial fields. This is a highly detailed source of information on unsaturated polyester resins, supporting academics, researchers and postgraduate students working with UPRs, polyesters, polymeric or composite materials, polymer chemistry, polymer physics, and materials science, as well as scientists, R&D professionals and

engineers in industry. Covers the use of unsaturated polyester resin systems for blends, IPNs, gels, composites and nanocomposites Presents cutting-edge techniques for the analysis and improvement of properties of advanced UPR-based materials Unlocks the potential of unsaturated polyester resins in high-performance materials for a range of advanced applications

Advanced Fixture Design for FMS Mar 12 2021

Fixtures are crucial to new manufacturing techniques and largely dictate the level of flexibility a manufacturing system can achieve. Advanced Fixture Design for FMS provides a systematic basis for the selection and design of fixturing systems. It gives a review of the current state of the art of flexible and reconfigurable fixturing systems. Recent developments in design methodology using CAD are analysed in depth. Fixture design is seen as an inseparable part of process planning. The primary objective of a fixture system is to ensure that the part being manufactured can be made consistently within the tolerance specified in the design. A new method of tolerance analysis is used to check the suitability of location surfaces and the sequence of operations and is explained in detail.

Unconventional Machining Processes Aug 05 2020

Computer-Aided Injection Mold Design and Manufacture

Apr 24 2022 Examining processes that affect more than 70 percent of consumer products ranging from computers to medical devices and automobiles, this reference

presents the latest research in automated plastic injection and die casting mold design and manufacture. It analyzes many industrial examples and methodologies while focusing on the algorithms, implementation procedures, and system architectures that will lead to a fully automated or semi-automated computer-aided injection mold design system (CADIMDS). This invaluable guide in this challenging area of precision engineering summarizes key findings and innovations from the authors' many years of research on intelligent mold design technologies.

Beneficial Microbes in Agro-Ecology Aug 17 2021

Beneficial Microbes in Agro-Ecology: Bacteria and Fungi is a complete resource on the agriculturally important beneficial microflora used in agricultural production technologies. Included are 30 different bacterial genera relevant in the sustainability, mechanisms, and beneficial natural processes that enhance soil fertility and plant growth. The second part of the book discusses 23 fungal genera used in agriculture for the management of plant diseases and plant growth promotion. Covering a wide range of bacteria and fungi on biocontrol and plant growth promoting properties, the book will help researchers, academics and advanced students in agro-ecology, plant microbiology, pathology, entomology, and nematology. Presents a comprehensive collection of agriculturally important bacteria and fungi Provides foundational knowledge of each core organism utilized in agro-ecology

Identifies the genera of agriculturally important microorganisms

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